Amendment and Response
Applicant: Ulrich Hachmann et al.
Serial No.: 10/592,925
Filed: August 26, 2008
Docket No.: I432.135.101/P33804
Title: COMPUTER SYSTEM FOR ELECTRONIC DATA PROCESSING

REMARKS

The following remarks are made in response to the Non-Final Office Action mailed August 2, 2010. Claims 12 and 21 have been cancelled. Claims 10-29 were rejected. With this Response, claims 10, 19, and 24 have been amended. Claims 10-11, 13-20, and 22-29 remain pending in the application and are presented for reconsideration and allowance.

Claim Rejections under 35 U.S.C. § 102

The Examiner rejected claims 10-29 under 35 U.S.C. § 102(b) as being anticipated by the Houg U.S. Patent No. 6,055,597. The claims as amended, however, are not taught or suggested by the reference.

As amended, independent claim 1 is a computer system with a first data processing unit, a second data processing unit and a data transmission memory device coupled on an input side to the first data processing unit and on an output side to the second data processing unit. The data transmission memory device is configured to transmit data records from the first data processing unit to the second data processing unit. The data transmission memory device has a first memory region and a second memory region. The first memory region and the second memory region are configured to store one data record in each case. The data transmission memory device is configured such that the transmission of a data record to be transmitted from the first data processing unit to the second data processing unit is performed in accordance with the following process:

> transferring the information as to whether the second data processing unit is ready for data transmission to the data transmission memory device;

> deciding, based on the information as to whether the second data processing unit is ready for data transmission, whether copying is released;

> transferring to the first memory region and storing in the first memory region the data contained in the data record to be transmitted;

> copying the data record stored in the first memory region into the second memory region if copying is released; and

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transferring the data record stored in the second memory region to the second data processing unit, ***wherein, in the process of transferring to the first memory region and storing in the first memory region the data contained in the data record to be transmitted, only data which is not contained in the data record stored in the first memory region is transmitted.***

This is not taught or suggested in the art of record.

Houg does not disclose a computer system, wherein, ***in the process of transferring to the first memory region and storing in the first memory region the data contained in the data record to be transmitted, only data which is not contained in the data record stored in the first memory region is transmitted*** as required by newly amended claim 10.

At most, Houg discloses transferring data units using a bi-directional FIFO buffer. However, Houg does not teach or suggest ***avoiding*** the transmission of a complete data record if data in the computer system contains data that has already been previously transmitted, provided that said data is still contained in the data record stored in the first memory region (*see*, specification, paragraph [0062]).

As such, a person of ordinary skill in the art at the time of the invention would have, at most, arrived at a system in which the complete instruction parameter set must always be transmitted from the standard processor to the alternate buffer or to the FIFO memory, and consequently the volume of data to be transmitted is greater than the cliamed computer system (*see*, specification, paragraph [0065]).

Therefore, the subject matter of independent claim 10, and analogously the subject matter of the independent claims 19 and 24 and their depending claims, is novel and non-obvious over the Houg.

In view of the foregoing remarks, Applicant respectfully requests a withdrawal of the outstanding rejections and allowance of the claims. Therefore, Applicant respectfully requests reconsideration and withdrawal of the 35 U.S.C. § 102(b) rejection to the claims, and requests allowance of these claims.

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Claim Rejections under 35 U.S.C. § 103

The Examiner rejected claims 13, 15, 17-18, 25, 27, and 29 under 35 U.S.C. § 103(a) as being unpatentable over the Houg U.S. Patent No. 6,055,597. Because these claims depend from the independent claims that are allowable as discussed above, they too are in condition for allowance. Therefore, Applicant respectfully requests reconsideration and withdrawal of the 35 U.S.C. § 103(a) rejection to the claims, and requests allowance of these claims.

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CONCLUSION

In view of the above, Applicant respectfully submits that pending claims 10-11, 13-20, and 22-29 are in form for allowance and are not taught or suggested by the cited references. Therefore, reconsideration and withdrawal of the rejections and allowance of claims 10-11, 13-20, and 22-29 are respectfully requested.

No fees are required under 37 C.F.R. 1.16(h)(i). However, if such fees are required, the Patent Office is hereby authorized to charge Deposit Account No. 50-0471.

Please consider this a Petition for Extension of Time for a sufficient number of months to enter these papers, if appropriate. At any time during the pendency of this application, please charge any additional fees or credit overpayment to Deposit Account No. 500471.

The Examiner is invited to contact the Applicant's representative at the below-listed telephone numbers to facilitate prosecution of this application.

Any inquiry regarding this Amendment and Response should be directed to Paul P. Kempf at Telephone No. (612) 767-2502, Facsimile No. (612) 573-2005. In addition, all correspondence should continue to be directed to the following address:

Dicke, Billig & Czaja
Fifth Street Towers, Suite 2250
100 South Fifth Street
Minneapolis, MN 55402

Respectfully submitted,

Ulrich Hachmann et al.,

By their attorneys,

DICKE, BILLIG & CZAJA, PLLC
Fifth Street Towers, Suite 2250
100 South Fifth Street
Minneapolis, MN 55402
Telephone: (612) 767-2502
Facsimile: (612) 573-2005

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PPK:cmj:mlm

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Paul P. Kempf
Reg. No. 39,727